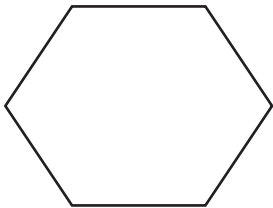


Interior Angle

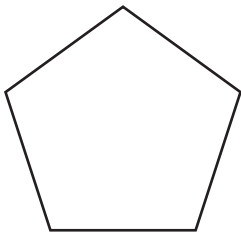
Example:



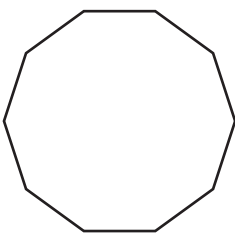
Interior angle = $\frac{\text{sum of interior angles}}{\text{Number of sides}}$
 $= \frac{720^\circ}{6}$
 $= 120^\circ$

Find the interior angle for each regular polygon. Round the answer to nearest tenths if necessary.

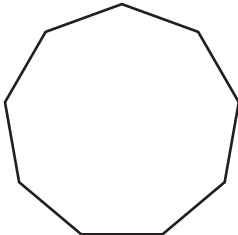
1)



2)



3)



Sum of the interior angles =

Sum of the interior angles =

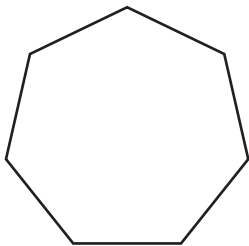
Sum of the interior angles =

Each interior angle =

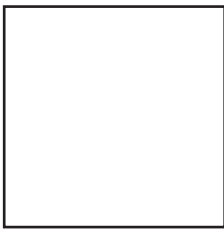
Each interior angle =

Each interior angle =

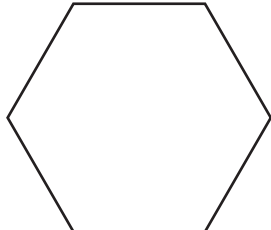
4)



5)



6)



Sum of the interior angles =

Sum of the interior angles =

Sum of the interior angles =

Each interior angle =

Each interior angle =

Each interior angle =

7)

regular 17-gon

8)

regular 14-gon

9)

regular 20-gon

Sum of the interior angles =

Sum of the interior angles =

Sum of the interior angles =

Each interior angle =

Each interior angle =

Each interior angle =

10)

regular 12-gon

11)

regular 18-gon

12)

regular 16-gon

Sum of the interior angles =

Sum of the interior angles =

Sum of the interior angles =

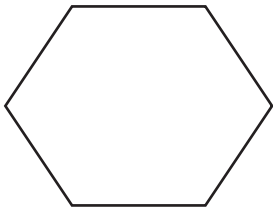
Each interior angle =

Each interior angle =

Each interior angle =

Answer key

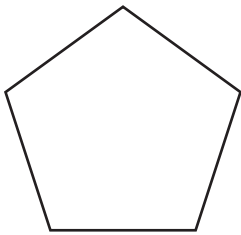
Example:



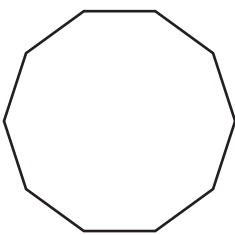
$$\begin{aligned} \text{Interior angle} &= \frac{\text{sum of interior angles}}{\text{Number of sides}} \\ &= \frac{720^\circ}{6} \\ &= 120^\circ \end{aligned}$$

Find the interior angle for each regular polygon. Round the answer to nearest tenths if necessary.

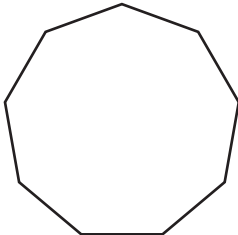
1)



2)



3)



Sum of the interior angles = **540°**

Sum of the interior angles = **1440°**

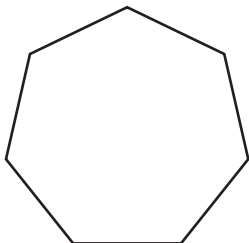
Sum of the interior angles = **1260°**

Each interior angle = **108°**

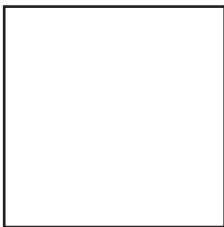
Each interior angle = **144°**

Each interior angle = **140°**

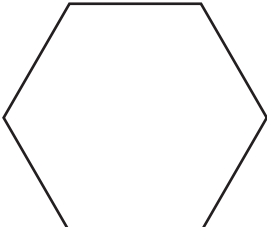
4)



5)



6)



Sum of the interior angles = **900°**

Sum of the interior angles = **360°**

Sum of the interior angles = **720°**

Each interior angle = **128.6°**

Each interior angle = **90°**

Each interior angle = **120°**

7)

regular 17-gon

8)

regular 14-gon

9)

regular 20-gon

Sum of the interior angles = **2700°**

Sum of the interior angles = **2160°**

Sum of the interior angles = **3240°**

Each interior angle = **158.8°**

Each interior angle = **154.3°**

Each interior angle = **162°**

10)

regular 12-gon

11)

regular 18-gon

12)

regular 16-gon

Sum of the interior angles = **1800°**

Sum of the interior angles = **2880°**

Sum of the interior angles = **2520°**

Each interior angle = **150°**

Each interior angle = **160°**

Each interior angle = **157.5°**